

Federal Bridge Replacement Scoring  
(Modified BIG Score + Incentive Points)

**Modified BIG Score Portion - 70 Points Maximum**

**1. Bridge Condition (50 points maximum)**

a) **Posted** (28 points maximum) – See the definition of “Posted” in the definitions section. Points will be awarded in accordance with Table VI-1.

Table VI-1

Bridge Inventory Code	Relationship of Operating Rating to Maximum Legal Load	Ranking Points
5	NO POSTING REQUIRED	0
4	0.1 TO 9.9% BELOW	6
3	10.0 TO 19.9% BELOW	12
2	20.0 TO 29.9% BELOW	18
1	30.0 TO 39.9% BELOW	24
0	> 39.9% BELOW	28

b) **Substructure Condition** (6 points maximum) – See the definition of “Substructure Condition” in the definitions section of this Procedure. Points will be awarded in accordance with Table VI-2.

c) **Superstructure Condition** (6 points maximum) – See the definition of “Superstructure Condition” in the definitions section of this Procedure. Points will be awarded in accordance with Table VI-2.

Table VI-2

NBI Condition Rating	Ranking Points
>5	0
5	1
4	2
3	3
2	4
1	5
0	6

d) **Culvert Condition** (12 points maximum) – See the definition of “Culvert

Condition” in the definitions section of this Procedure. Points will be awarded at two times the value as shown in Table VI-2.

- e) **NSTM** (5 points or zero points) – See the definition of “Nonredundant Steel Tension Member” in the definitions section of this Procedure. Five points will be awarded if the structure is determined to be NSTM.
- f) **Scour Critical** (5 points or zero points) – See the definition of “Scour Critical” in the definitions section of this Procedure. Five points will be awarded if the structure is determined to be scour critical.

**2. User Impact** (20 points maximum) - User Impact will be a variable that measures impact on users of the bridge and will be calculated by multiplying the ADT for the bridge by the Detour Length. The points will be assigned based on the following formulas with the maximum value for user impact capped at 20 points:

$$\text{User Impact (On-System)} = \text{ADT} \times \text{Detour Length} \\ (\text{miles}) / 350$$

$$\text{User Impact (Off-System)} = \text{ADT} \times \text{Detour Length} \\ (\text{miles}) / 100$$

**Incentive Points Portion - 25 Points Maximum**  
**(Based on information recorded in the National Bridge Inventory for the Feature Intersected, NBI Item 006A)**

- **Bridge over a Named Creek** (5 points)
- **Bridged over a River** (10 points)
- **Bridges over a Railroad** (10 points)